PowerSafe® RE

Renewables

Battery Performance Specifications

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EnerSys® Power/Full Solutions

RESERVE POWER

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PowerSafe® RE

Features and Benefits

- Capacity range 207-2208Ah (in single cell and six cell units)
- Exclusive Square Tube positive plate design yields more energy in the same footprint and a longer cycle life
- Large electrolyte reserve allows for longer intervals between watering
- Included flame arrestor increases level of safety
- External level indicator allows easy determination of electrolyte height

Construction

- Single cell units (1RE) have rugged plastic trays with handles for easy installation in hard-to-reach locations
- Plastic trays provide excellent corrosion resistance and electrical isolation
- Six cell batteries (6RE) are assembled steel trays with offset lifting eyes for tight spacing in large installations
- Steel trays allow bolting to the floor for safety and security
- All batteries have flag terminals with included cable connectors
- 1.25 SG Electrolyte for long life float service and increased charge efficiency

Installation and Operation

- Batteries are easily connected into strings of up to 48VDC nominal
- Operating temperature range: -4°F (-20°C) to 113°F (45°C)
- Terminal plates available for multiple take-off cables

Standards

- The management systems governing the manufacture of this product are ISO 9001:2008 certified

General Specifications

	Nominal Capacity (Ah)	Nominal Dimensions								Electrolyte				Pure Acid (H_2SO_4) Acid			
		Length		Width		Height		Typical Weight		Volume (per bloc)		Weight (per bloc)		Volume (per bloc)		Weight (per bloc)	
PowerSafe® RE Battery	20hr. Rate 1.75Vpc @ 77°F	in	mm	in	mm	in	mm	lbs	kg	gal	L	lbs	kg	gal	L	lbs	kg
1RE-055-07	207	5.42	138	6.63	168	18.9	479	35.0	15.9	0.92	3.49	9.64	4.38	0.31	1.17	4.72	2.14
1RE-055-09	276	5.42	138	6.63	168	18.9	479	40.0	18.2	0.96	3.62	10.0	4.54	0.32	1.21	4.89	2.22
1RE-055-11	345	5.42	138	6.63	168	18.9	479	45.0	20.5	0.90	3.43	9.46	4.30	0.30	1.15	4.63	2.11
1RE-055-15	483	8.42	214	6.69	170	18.9	479	65.0	29.5	1.47	5.56	15.4	6.98	0.49	1.86	7.51	3.42
1RE-055-19	621	8.42	214	6.69	170	18.9	479	80.0	36.4	1.62	6.14	17.0	7.71	0.54	2.06	8.30	3.77
1RE-055-21	690	8.68	220	7.00	178	19.2	487	95.0	43.2	1.79	6.79	18.7	8.52	0.60	2.27	9.18	4.17
1RE-085-17	768	7.18	182	7.00	178	24.9	632	107	48.6	1.89	7.17	19.8	9.00	0.63	2.40	9.69	4.41
1RE-085-19	864	7.93	201	7.00	178	24.9	632	119	54.1	2.08	7.88	21.8	9.89	0.70	2.64	10.6	4.84
1RE-085-21	960	8.68	220	7.00	178	24.9	632	132	60.0	2.29	8.69	24.0	10.9	0.77	2.91	11.7	5.34
1RE-085-23	1056	9.43	240	7.00	178	24.9	632	145	65.9	2.58	9.79	27.0	12.3	0.87	3.28	13.22	6.01
1RE-085-25	1152	10.2	259	7.00	178	24.9	632	158	71.8	2.79	10.6	29.2	13.3	0.93	3.54	14.3	6.49
1RE-085-27	1248	10.9	278	7.00	178	24.9	632	170	77.3	2.98	11.3	31.2	14.2	1.00	3.79	15.3	6.95
1RE-085-29	1344	11.7	297	7.00	178	24.9	632	184	83.6	3.28	12.4	34.3	15.6	1.10	4.17	16.8	7.64
1RE-085-31	1440	12.4	316	7.00	178	24.9	632	194	88.2	3.48	13.2	36.4	16.5	1.17	4.41	17.8	8.10
1RE-085-33	1536	13.2	335	7.00	178	24.9	632	205	93.2	3.68	14.0	38.5	17.5	1.23	4.68	18.9	8.57
1RE-125-17	1104	7.18	182	7.00	178	32.4	823	150	68.2	2.70	10.2	28.3	12.9	0.91	3.43	13.8	6.29
1RE-125-19	1242	7.93	201	7.00	178	32.4	823	168	76.4	2.98	11.3	31.2	14.2	1.00	3.79	15.3	6.95
1RE-125-21	1380	8.68	220	7.00	178	32.4	823	184	83.6	3.36	12.7	35.1	16.0	1.12	4.26	17.2	7.81
1RE-125-23	1518	9.43	240	7.00	178	32.4	823	202	91.8	3.73	14.1	39.0	17.7	1.25	4.73	19.1	8.68
1RE-125-25	1656	10.2	259	7.00	178	32.4	823	220	100	4.10	15.5	42.9	19.5	1.37	5.21	21.0	9.55
1RE-125-27	1794	10.9	278	7.00	178	32.4	823	236	107	4.38	16.6	45.8	20.8	1.47	5.56	22.4	10.2
1RE-125-29	1932	11.7	297	7.00	178	32.4	823	252	115	4.76	18.0	49.7	22.6	1.59	6.04	24.4	11.1
1RE-125-31	2070	12.4	316	7.00	178	32.4	823	268	122	5.13	19.4	53.7	24.4	1.72	6.51	26.3	11.9
1RE-125-33	2208	13.2	335	7.00	178	32.4	823	284	129	5.50	20.8	57.6	26.2	1.84	6.98	28.2	12.8
6RE-085-09	384	24.2	615	6.62	168	24.8	630	340	155	1.00	3.78	10.4	4.74	0.33	1.27	5.11	2.32
6RE-085-11	480	28.7	729	6.62	168	24.8	630	419	190	1.19	4.52	12.5	5.68	0.40	1.51	6.11	2.78
6RE-085-13	576	33.2	843	6.62	168	24.8	630	491	223	1.39	5.26	14.5	6.61	0.47	1.76	7.12	3.23
6RE-085-15	672	37.7	958	6.62	168	24.8	630	565	257	1.70	6.43	17.8	8.07	0.57	2.15	8.69	3.95
6RE-085-17	768	40.7	1034	6.87	175	24.8	630	644	293	1.89	7.17	19.8	9.00	0.63	2.40	9.69	4.41
6RE-085-19	864	40.7	1034	7.62	194	24.8	630	716	325	2.08	7.88	21.8	9.89	0.70	2.64	10.6	4.48
6RE-085-21	960	40.7	1034	8.37	213	24.8	630	790	359	2.29	8.69	24.0	10.9	0.77	2.91	11.7	5.34
6RE-085-23	1056	40.7	1034	9.12	232	24.8	630	868	395	2.58	9.79	27.0	12.3	0.87	3.28	13.2	6.01
6RE-085-25	1152	40.7	1034	9.87	251	24.8	630	947	431	2.79	10.6	29.2	13.3	0.93	3.54	14.3	6.49
6RE-085-27	1248	40.7	1034	10.62	270	24.8	630	1020	464	2.98	11.3	31.2	14.2	1.00	3.79	15.3	6.95
6RE-085-29	1344	40.7	1034	11.37	289	24.8	630	1105	502	3.28	12.4	34.3	15.6	1.10	4.17	16.8	7.64
6RE-085-31	1440	40.7	1034	12.12	308	24.8	630	1166	530	3.48	13.2	36.4	16.5	1.17	4.41	17.8	8.10
6RE-085-33	1536	40.7	1034	12.87	327	24.8	630	1227	558	3.68	14.0	38.5	17.5	1.23	4.68	18.9	8.57
6RE-125-09	552	24.2	615	6.62	168	32.2	818	498	226	1.31	4.95	13.7	6.21	0.44	1.66	6.69	3.04
6RE-125-11	690	28.7	729	6.62	168	32.2	818	600	273	1.68	6.36	17.6	7.98	0.56	2.13	8.60	3.91
6RE-125-13	828	33.2	843	6.62	168	32.2	818	696	316	1.96	7.42	20.5	9.31	0.66	2.49	10.0	4.56
6RE-125-15	966	37.7	958	6.62	168	32.2	818	792	360	2.33	8.83	24.4	11.1	0.78	2.96	11.9	5.43
6RE-125-17	1104	40.7	1034	6.87	187	32.2	818	900	409	2.70	10.2	28.3	12.9	0.91	3.43	13.8	6.29
6RE-125-19	1242	40.7	1034	7.62	194	32.2	818	1008	458	2.98	11.3	31.2	14.2	1.00	3.79	15.3	6.95
6RE-125-21	1380	40.7	1034	8.37	213	32.2	818	1104	502	3.36	12.7	35.1	16.0	1.12	4.26	17.2	7.81
6RE-125-23	1518	40.7	1034	9.12	232	32.2	818	1212	551	3.73	14.1	39.0	17.7	1.25	4.73	19.1	8.68
6RE-125-25	1656	40.7	1034	9.87	251	32.2	818	1320	600	4.10	15.5	42.9	19.5	1.37	5.21	21.0	9.55
6RE-125-27	1794	40.7	1034	10.62	270	32.2	818	1416	644	4.38	16.6	45.8	20.8	1.47	5.56	22.4	10.2
6RE-125-29	1932	40.7	1034	11.37	289	32.2	818	1512	687	4.76	18.0	49.7	22.6	1.59	6.04	24.4	11.1
6RE-125-31	2070	40.7	1034	12.12	308	32.2	818	1608	731	5.13	19.4	53.7	24.4	1.72	6.51	26.3	11.9
6RE-125-33	2208	40.7	1034	12.87	327	32.2	818	1704	775	5.50	20.8	57.6	26.2	1.84	6.98	28.2	12.8

Constant Current Discharge Performance Data

Discharge Rates in Amperes to 1.90Vpc at 77°F (25°C)*

PowerSafe® RE Battery	Standby Time (Hours)										
	6	8	10	12	20	24	48	72	100	120	240
RE055-07	23.6	18.4	15.2	13.0	8.3	7.1	3.9	2.7	2.1	1.8	1.0
RE055-09	31.5	24.6	20.2	17.3	11.1	9.5	5.2	3.7	2.8	2.4	1.3
RE055-11	39.3	30.7	25.3	21.6	13.9	11.9	6.5	4.6	3.4	2.9	1.6
RE055-15	55.1	43.0	35.4	30.2	19.4	16.6	9.1	6.4	4.8	4.1	2.3
RE055-19	70.8	55.2	45.5	38.9	25.0	21.3	11.7	8.2	6.2	5.3	2.9
RE055-21	78.7	61.4	50.6	43.2	27.8	23.7	13.0	9.2	6.9	5.9	3.2
RE085-9	43.7	33.8	27.7	23.5	14.9	12.6	6.8	4.7	3.5	3.0	1.6
RE085-11	54.7	42.3	34.6	29.4	18.6	15.8	8.5	5.9	4.4	3.7	2.0
RE085-13	65.6	50.7	41.5	35.3	22.3	19.0	10.2	7.1	5.3	4.5	2.4
RE085-15	76.5	59.2	48.4	41.1	26.0	22.1	11.9	8.3	6.2	5.2	2.8
RE085-17	87.5	67.6	55.4	47.0	29.8	25.3	13.6	9.4	7.0	6.0	3.2
RE085-19	98.4	76.1	62.3	52.9	33.5	28.4	15.3	10.6	7.9	6.7	3.6
RE085-21	109.3	84.5	69.2	58.8	37.2	31.6	17.0	11.8	8.8	7.5	4.0
RE085-23	120.3	93.0	76.1	64.6	40.9	34.7	18.7	13.0	9.7	8.2	4.4
RE085-25	131.2	101.4	83.0	70.5	44.6	37.9	20.4	14.2	10.6	9.0	4.8
RE085-27	142.1	109.9	90.0	76.4	48.4	41.1	22.1	15.3	11.4	9.7	5.2
RE085-29	153.1	118.3	96.9	82.3	52.1	44.2	23.8	16.5	12.3	10.5	5.6
RE085-31	164.0	126.8	103.8	88.1	55.8	47.4	25.5	17.7	13.2	11.2	6.0
RE085-33	174.9	135.2	110.7	94.0	59.5	50.5	27.2	18.9	14.1	12.0	6.4
RE125-9	60.0	46.7	38.4	32.7	21.0	17.9	9.8	6.8	5.1	4.4	2.4
RE125-11	75.0	58.3	48.0	40.9	26.2	22.3	12.2	8.6	6.4	5.5	3.0
RE125-13	90.0	70.0	57.6	49.1	31.4	26.8	14.6	10.3	7.7	6.6	3.6
RE125-15	105.0	81.6	67.2	57.3	36.7	31.3	17.1	12.0	9.0	7.7	4.2
RE125-17	120.0	93.3	76.8	65.5	41.9	35.7	19.5	13.7	10.3	8.8	4.8
RE125-19	135.0	105.0	86.4	73.7	47.2	40.2	21.9	15.4	11.6	9.9	5.4
RE125-21	150.0	116.6	96.0	81.8	52.4	44.7	24.4	17.1	12.8	11.0	6.0
RE125-23	165.0	128.3	105.6	90.0	57.6	49.1	26.8	18.8	14.1	12.0	6.6
RE125-25	180.0	140.0	115.2	98.2	62.9	53.6	29.3	20.5	15.4	13.1	7.2
RE125-27	195.0	151.6	124.8	106.4	68.1	58.1	31.7	22.2	16.7	14.2	7.8
RE125-29	210.0	163.3	134.4	114.6	73.4	62.5	34.1	24.0	18.0	15.3	8.4
RE125-31	225.0	174.9	144.0	122.8	78.6	67.0	36.6	25.7	19.3	16.4	9.0
RE125-33	240.0	186.6	153.6	130.9	83.8	71.5	39.0	27.4	20.5	17.5	9.6

**Capacity shall be a minimum of 90% on the first cycle, 100% after 10 cycles.*

Discharge Rates in Amperes to 1.85Vpc at 77°F (25°C)*

PowerSafe® RE Battery	Standby Time (Hours)							
	6	8	10	12	20	24	48	72
RE055-07	24.9	19.7	16.5	14.2	9.4	8.1	4.6	3.3
RE055-09	33.2	26.3	22.0	18.9	12.5	10.8	6.2	4.4
RE055-11	41.5	32.9	27.5	23.7	15.7	13.5	7.7	5.5
RE055-15	58.1	46.0	38.4	33.1	21.9	18.9	10.8	7.8
RE055-19	74.7	59.2	49.4	42.6	28.2	24.3	13.9	10.0
RE055-21	83.0	65.8	54.9	47.3	31.3	27.0	15.4	11.1
RE085-9	47.3	37.1	30.8	26.5	17.2	14.8	8.3	5.9
RE085-11	59.2	46.4	38.5	33.1	21.6	18.5	10.3	7.4
RE085-13	71.0	55.7	46.3	39.7	25.9	22.2	12.4	8.8
RE085-15	82.8	65.0	54.0	46.3	30.2	25.9	14.5	10.3
RE085-17	94.7	74.3	61.7	52.9	34.5	29.6	16.5	11.8
RE085-19	106.5	83.6	69.4	59.5	38.8	33.3	18.6	13.2
RE085-21	118.3	92.9	77.1	66.2	43.1	37.0	20.7	14.7
RE085-23	130.2	102.2	84.8	72.8	47.4	40.7	22.7	16.2
RE085-25	142.0	111.5	92.5	79.4	51.7	44.4	24.8	17.6
RE085-27	153.8	120.7	100.2	86.0	56.0	48.0	26.9	19.1
RE085-29	165.7	130.0	107.9	92.6	60.3	51.7	28.9	20.6
RE085-31	177.5	139.3	115.7	99.3	64.7	55.4	31.0	22.1
RE085-33	189.3	148.6	123.4	105.9	69.0	59.1	33.1	23.5
RE125-9	65.8	52.0	43.2	37.2	24.5	21.1	11.9	8.5
RE125-11	82.3	64.9	54.0	46.5	30.6	26.3	14.9	10.7
RE125-13	98.7	77.9	64.9	55.9	36.7	31.6	17.9	12.8
RE125-15	115.2	90.9	75.7	65.2	42.8	36.8	20.8	14.9
RE125-17	131.6	103.9	86.5	74.5	48.9	42.1	23.8	17.1
RE125-19	148.1	116.9	97.3	83.8	55.0	47.4	26.8	19.2
RE125-21	164.5	129.9	108.1	93.1	61.2	52.6	29.8	21.3
RE125-23	180.9	142.9	118.9	102.4	67.3	57.9	32.7	23.5
RE125-25	197.4	155.8	129.7	111.7	73.4	63.2	35.7	25.6
RE125-27	213.9	168.8	140.5	121.0	79.5	68.4	38.7	27.7
RE125-29	230.3	181.8	151.3	130.3	85.6	73.7	41.7	29.9
RE125-31	246.8	194.8	162.2	139.6	91.7	78.9	44.7	32.0
RE125-33	263.2	207.8	173.0	148.9	97.8	84.2	47.6	34.1

**Capacity shall be a minimum of 90% on the first cycle, 100% after 10 cycles.*

Discharge Rates in Amperes to 1.80Vpc at 77°F (25°C)*

PowerSafe® RE Battery	Standby Time (Hours)						
	6	8	10	12	20	24	48
RE055-07	26.8	21.2	17.7	15.3	10.1	8.7	5.0
RE055-09	35.7	28.3	23.6	20.3	13.4	11.6	6.6
RE055-11	44.6	35.3	29.5	25.4	16.8	14.5	8.3
RE055-15	62.4	49.4	41.3	35.6	23.5	20.3	11.6
RE055-19	80.3	63.6	53.1	45.8	30.2	26.1	14.9
RE055-21	89.2	70.6	59.0	50.8	33.6	29.0	16.5
RE085-09	51.8	40.5	33.5	28.6	18.5	15.8	8.7
RE085-11	64.8	50.6	41.9	35.8	23.1	19.8	10.9
RE085-13	77.7	60.8	50.2	43.0	27.7	23.7	13.1
RE085-15	90.7	70.9	58.6	50.1	32.3	27.7	15.3
RE085-17	103.6	81.0	67.0	57.3	37.0	31.6	17.5
RE085-19	116.6	91.1	75.3	64.4	41.6	35.6	19.7
RE085-21	129.5	101.3	83.7	71.6	46.2	39.5	21.9
RE085-23	142.4	111.4	92.1	78.7	50.8	43.5	24.0
RE085-25	155.4	121.5	100.4	85.9	55.4	47.5	26.2
RE085-27	168.3	131.6	108.8	93.1	60.1	51.4	28.4
RE085-29	181.3	141.8	117.2	100.2	64.7	55.4	30.6
RE085-31	194.3	151.9	125.6	107.4	69.3	59.3	32.8
RE085-33	207.2	162.0	133.9	114.5	73.9	63.3	35.0
RE125-09	73.5	57.6	47.6	40.8	26.4	22.6	12.6
RE125-11	91.9	72.0	59.5	51.0	33.0	28.3	15.7
RE125-13	110.3	86.4	71.5	61.2	39.6	34.0	18.8
RE125-15	128.7	100.8	83.4	71.4	46.2	39.6	22.0
RE125-17	147.1	115.2	95.3	81.6	52.8	45.3	25.1
RE125-19	165.4	129.6	107.2	91.8	59.4	50.9	28.2
RE125-21	183.8	144.0	119.1	102.0	66.0	56.6	31.4
RE125-23	202.2	158.4	131.0	112.2	72.7	62.2	34.5
RE125-25	220.6	172.8	142.9	122.4	79.3	67.9	37.6
RE125-27	239.0	187.2	154.8	132.6	85.9	73.6	40.8
RE125-29	257.4	201.6	166.7	142.8	92.5	79.2	43.9
RE125-31	275.8	216.0	178.7	153.0	99.1	84.9	47.1
RE125-33	294.1	230.4	190.6	163.2	105.7	90.5	50.2

**Capacity shall be a minimum of 90% on the first cycle, 100% after 10 cycles.*

Discharge Rates in Amperes to 1.75Vpc at 77°F (25°C)*

PowerSafe® RE Battery	Standby Time (Hours)					
	6	8	10	12	20	24
RE055-07	28.0	22.1	18.3	15.8	10.4	8.9
RE055-09	37.3	29.4	24.4	21.0	13.8	11.9
RE055-11	46.6	36.8	30.6	26.3	17.3	14.9
RE055-15	65.2	51.5	42.8	36.8	24.1	20.8
RE055-19	83.8	66.2	55.0	47.3	31.1	26.7
RE055-21	93.2	73.5	61.1	52.6	34.5	29.7
RE085-9	54.7	42.6	35.1	29.9	19.2	16.4
RE085-11	68.3	53.3	43.9	37.4	24.0	20.5
RE085-13	82.0	63.9	52.6	44.9	28.8	24.6
RE085-15	95.7	74.5	61.4	52.4	33.6	28.7
RE085-17	109.3	85.2	70.2	59.9	38.4	32.8
RE085-19	123.0	95.8	78.9	67.3	43.2	36.9
RE085-21	136.7	106.5	87.7	74.8	48.0	41.0
RE085-23	150.3	117.2	96.5	82.3	52.8	45.1
RE085-25	164.0	127.8	105.2	89.8	57.6	49.2
RE085-27	177.7	138.4	114.0	97.3	62.4	53.3
RE085-29	191.3	149.1	122.8	104.8	67.2	57.4
RE085-31	205.0	159.8	131.6	112.3	72.0	61.5
RE085-33	218.7	170.4	140.3	119.7	76.8	65.6
RE125-9	78.6	61.3	50.4	43.0	27.6	23.6
RE125-11	98.3	76.6	63.0	53.8	34.5	29.4
RE125-13	117.9	91.9	75.7	64.5	41.4	35.3
RE125-15	137.6	107.2	88.3	75.3	48.3	41.2
RE125-17	157.2	122.5	100.9	86.1	55.2	47.1
RE125-19	176.8	137.8	113.5	96.8	62.1	53.0
RE125-21	196.5	153.1	126.1	107.6	69.0	58.9
RE125-23	216.2	168.4	138.7	118.3	75.9	64.8
RE125-25	235.8	183.8	151.3	129.1	82.8	70.7
RE125-27	255.4	199.1	163.9	139.9	89.7	76.5
RE125-29	275.1	214.4	176.5	150.6	96.6	82.4
RE125-31	294.8	229.7	189.2	161.4	103.5	88.3
RE125-33	314.4	245.0	201.8	172.1	110.4	94.2

**Capacity shall be a minimum of 90% on the first cycle, 100% after 10 cycles.*

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